SC/QC/AMG/2022-23/P6-P/GSB1 **Date: 12-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Ravuthanahalli, Chandu nilaya house road
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1020.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	91.00	91.00	8.92	**91.08**	80-100
26.50	145.00	236.00	23.14	**76.86**	55-90
9.50	151.00	387.00	37.94	**62.06**	35-65
4.75	192.00	579.00	56.76	**43.24**	25-50
2.36	271.00	850.00	83.33	**16.67**	10-20
0.85	124.00	974.00	95.49	**4.51**	2-10
0.425	46.00	1020.00	100.00	**0.00**	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.43 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.72**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.91**	----------
5.	Aggregate Impact Value, %	**28.74**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB2 **Date: 13-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Kadabagere, Govt School Road
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1040.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	94.00	94.00	9.04	**90.96**	80-100
26.50	156.00	250.00	24.04	**75.96**	55-90
9.50	142.00	392.00	37.69	**62.31**	35-65
4.75	228.00	620.00	59.62	**40.38**	25-50
2.36	261.00	881.00	84.71	**15.29**	10-20
0.85	118.00	999.00	96.06	**3.94**	2-10
0.425	41.00	1040.00	100.00	**0.00**	0-5

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.86**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.13**	----------
5.	Aggregate Impact Value, %	**28.40**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB3 **Date: 13-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Kadabagere, Govt School Road
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1000.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	85.00	85.00	8.50	**91.50**	80-100
26.50	132.00	217.00	21.70	**78.30**	55-90
9.50	159.00	376.00	37.60	**62.40**	35-65
4.75	214.00	590.00	59.00	**41.00**	25-50
2.36	243.00	833.00	83.30	**16.70**	10-20
0.85	136.00	969.00	96.90	**3.10**	2-10
0.425	31.00	1000.00	100.00	**0.00**	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.44 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.25**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.14**	----------
5.	Aggregate Impact Value, %	**28.84**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SC/QC/AMG/2022-23/P6-P/GSB4 **Date: 20-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Spoorthi layout, 3rd cross
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1100.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	123.00	123.00	11.18	**88.82**	80-100
26.50	158.00	281.00	25.55	**74.45**	55-90
9.50	189.00	470.00	42.73	**57.27**	35-65
4.75	236.00	706.00	64.18	**35.82**	25-50
2.36	257.00	963.00	87.55	**12.45**	10-20
0.85	91.00	1054.00	95.82	**4.18**	2-10
0.425	46.00	1100.00	100.00	**0.00**	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.46 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.14**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.15**	----------
5.	Aggregate Impact Value, %	**28.61**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB5 **Date: 21-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Seegehalli, Lakshmi Narasimaih nilaya.
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1050.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	104.00	104.00	9.90	**90.10**	80-100
26.50	141.00	245.00	23.33	**76.67**	55-90
9.50	165.00	410.00	39.05	**60.95**	35-65
4.75	204.00	614.00	58.48	**41.52**	25-50
2.36	268.00	882.00	84.00	**16.00**	10-20
0.85	108.00	990.00	94.29	**5.71**	2-10
0.425	60.00	1050.00	100.00	**0.00**	0-5

AEE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.43 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.90**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.75**	----------
5.	Aggregate Impact Value, %	**28.62**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB6 **Date: 27-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Raghavendra layout, Ana Kru Road
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1030.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	125.00	125.00	12.14	**87.86**	80-100
26.50	166.00	291.00	28.25	**71.75**	55-90
9.50	152.00	443.00	43.01	**56.99**	35-65
4.75	181.00	624.00	60.58	**39.42**	25-50
2.36	232.00	856.00	83.11	**16.89**	10-20
0.85	115.00	971.00	94.27	**5.73**	2-10
0.425	59.00	1030.00	100.00	**0.00**	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.44 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.60**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.20**	----------
5.	Aggregate Impact Value, %	**28.55**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB7 **Date: 28-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Lakshmi layout, 7th cross
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1060.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	131.00	131.00	12.36	**87.64**	80-100
26.50	152.00	283.00	26.70	**73.30**	55-90
9.50	147.00	430.00	40.57	**59.43**	35-65
4.75	198.00	628.00	59.25	**40.75**	25-50
2.36	245.00	873.00	82.36	**17.64**	10-20
0.85	106.00	979.00	92.36	**7.64**	2-10
0.425	81.00	1060.00	100.00	**0.00**	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.71**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.80**	----------
5.	Aggregate Impact Value, %	**28.60**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/GSB8 **Date: 29-10-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

TEST RESULTS

1. **Gradation Test:**
Location: Raghavendra layout, Jagadish House Road
TABLE 1.1

Sample **GSB** = Total Weight of the Sample (gm) : 1050.00					
Sieve Size, mm	**Weight Retained (gm)**	**Cumulative Weight Retained (gm)**	**Cumulative % of Retained**	**Cumulative % of Passing**	**Specified Limits as per MoRTH Specifications, V Revision-2013**
75.00	0.00	0.00	0.00	**100.00**	100
53.00	166.00	166.00	15.81	**84.19**	80-100
26.50	132.00	298.00	28.38	**71.62**	55-90
9.50	171.00	469.00	44.67	**55.33**	35-65
4.75	146.00	615.00	58.57	**41.43**	25-50
2.36	235.00	850.00	80.95	**19.05**	10-20
0.85	135.00	985.00	93.81	**6.19**	2-10
0.425	65.00	1050.00	100.00	**0.00**	0-5

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

2. Properties of Aggregates:

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.44 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.20**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.39**	----------
5.	Aggregate Impact Value, %	**28.10**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/C1 **Date: 19-10-2022**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.17%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Ravuthanahalli Chandu Nilaya house Road

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC1 **Date: 19-10-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.15**	0 -20	30- 70
10mm	**31.25**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.20**	60-95	75-100	85-100	
01.18	**73.90**	30-70	55-90	75-100	
600.mic	**48.65**	15-34	35-59	60-79	
300.mic	**22.30**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Ravuthanahalli Chandu Nilaya house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC2 **Date: 28-10-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.50**	0 -20	30- 70
10mm	**29.55**	0 -5	10- 35
4.75mm	**3.90**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.85**	30-70	55-90	75-100	
600.mic	**45.55**	15-34	35-59	60-79	
300.mic	**24.15**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Chamundeshwari layout, Vijaykumar. M house Rd

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC3 **Date: 19-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**63.15**	0 -20	30- 70
10mm	**28.95**	0 -5	10- 35
4.75mm	**3.65**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**46.35**	15-34	35-59	60-79	
300.mic	**22.15**	5-20	8-30	12-40	
150.mic	**5.85**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kadabgere Main Road, Government School

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC3A **Date: 19-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.25**	0 -20	30- 70
10mm	**31.85**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**46.35**	15-34	35-59	60-79	
300.mic	**22.15**	5-20	8-30	12-40	
150.mic	**5.60**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kadabgere Main Road, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC3B **Date: 19-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.70**	0 -20	30- 70
10mm	**31.25**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.05**	60-95	75-100	85-100	
01.18	**71.30**	30-70	55-90	75-100	
600.mic	**45.25**	15-34	35-59	60-79	
300.mic	**24.05**	5-20	8-30	12-40	
150.mic	**7.15**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kadabgere Main Road, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC3C **Date: 21-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.15**	0 -20	30- 70
10mm	**28.55**	0 -5	10- 35
4.75mm	**3.95**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.05**	60-95	75-100	85-100	
01.18	**71.60**	30-70	55-90	75-100	
600.mic	**44.95**	15-34	35-59	60-79	
300.mic	**23.75**	5-20	8-30	12-40	
150.mic	**6.15**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kadabgere Main Road, Government School

Assl. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC3D **Date: 21-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.15**	0 -20	30- 70
10mm	**30.85**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.25**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**45.65**	15-34	35-59	60-79	
300.mic	**22.30**	5-20	8-30	12-40	
150.mic	**5.75**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabgere Main Road, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC4 **Date: 21-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.70**	0 -20	30- 70
10mm	**31.25**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.15**	60-95	75-100	85-100	
01.18	**72.30**	30-70	55-90	75-100	
600.mic	**44.25**	15-34	35-59	60-79	
300.mic	**22.05**	5-20	8-30	12-40	
150.mic	**6.10**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Triveni Road, 2nd Cross

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC5 **Date: 22-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.20**	0 -20	30- 70
10mm	**28.55**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.05**	60-95	75-100	85-100	
01.18	**74.25**	30-70	55-90	75-100	
600.mic	**45.90**	15-34	35-59	60-79	
300.mic	**23.70**	5-20	8-30	12-40	
150.mic	**6.15**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Kuvempu Badavane, Shanthi Nivas house Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC6 **Date: 23-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**63.15**	0 -20	30- 70
10mm	**32.85**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**45.35**	15-34	35-59	60-79	
300.mic	**24.15**	5-20	8-30	12-40	
150.mic	**6.75**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Guru Nilaya , 5th Cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC7 **Date: 25-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.70**	0 -20	30- 70
10mm	**28.55**	0 -5	10- 35
4.75mm	**3.80**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.55**	60-95	75-100	85-100	
01.18	**73.15**	30-70	55-90	75-100	
600.mic	**46.90**	15-34	35-59	60-79	
300.mic	**23.05**	5-20	8-30	12-40	
150.mic	**7.10**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Raghavendra layout, Ana. Kru Road, 4th Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC8 **Date: 28-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.45**	0 -20	30- 70
10mm	**30.75**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.50**	60-95	75-100	85-100	
01.18	**62.95**	30-70	55-90	75-100	
600.mic	**46.35**	15-34	35-59	60-79	
300.mic	**14.50**	5-20	8-30	12-40	
150.mic	**6.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 1st Cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC9 **Date: 29-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.10**	0 -20	30- 70
10mm	**32.85**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.05**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.40**	60-95	75-100	85-100	
01.18	**63.80**	30-70	55-90	75-100	
600.mic	**51.25**	15-34	35-59	60-79	
300.mic	**14.95**	5-20	8-30	12-40	
150.mic	**7.30**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 2nd Cross

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC10 **Date: 30-11-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.15**	0 -20	30- 70
10mm	**32.75**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.80**	60-95	75-100	85-100	
01.18	**62.40**	30-70	55-90	75-100	
600.mic	**43.15**	15-34	35-59	60-79	
300.mic	**16.50**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 3rd Cross

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC11 **Date: 01-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.15**	0 -20	30- 70
10mm	**29.45**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.20**	60-95	75-100	85-100	
01.18	**70.90**	30-70	55-90	75-100	
600.mic	**44.65**	15-34	35-59	60-79	
300.mic	**22.30**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

AE

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC12 **Date: 03-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.50**	0 -20	30- 70
10mm	**31.80**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**74.85**	30-70	55-90	75-100	
600.mic	**46.55**	15-34	35-59	60-79	
300.mic	**22.15**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC13 **Date: 05-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.15**	0 -20	30- 70
10mm	**29.55**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**46.35**	15-34	35-59	60-79	
300.mic	**22.15**	5-20	8-30	12-40	
150.mic	**6.85**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 3rd Cross From End Right Side

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC14 **Date: 06-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.70**	0 -20	30- 70
10mm	**31.55**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.15**	60-95	75-100	85-100	
01.18	**71.30**	30-70	55-90	75-100	
600.mic	**45.25**	15-34	35-59	60-79	
300.mic	**24.05**	5-20	8-30	12-40	
150.mic	**6.85**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Seegehalli gate, Sriranga Muneshwara Temple Surrounding

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC15 **Date: 07-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.20**	0 -20	30- 70
10mm	**31.75**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.05**	60-95	75-100	85-100	
01.18	**74.60**	30-70	55-90	75-100	
600.mic	**45.90**	15-34	35-59	60-79	
300.mic	**23.70**	5-20	8-30	12-40	
150.mic	**6.15**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Seegehalli gate, Anjanadri House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC16 **Date: 08-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**63.15**	0 -20	30- 70
10mm	**29.85**	0 -5	10- 35
4.75mm	**3.55**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**71.90**	30-70	55-90	75-100	
600.mic	**45.65**	15-34	35-59	60-79	
300.mic	**23.80**	5-20	8-30	12-40	
150.mic	**6.50**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Seegehalli gate, Guddadha Ranganatha Swamy Nilaya Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC17 **Date: 09-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti *(Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of* Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.70**	0 -20	30- 70
10mm	**28.55**	0 -5	10- 35
4.75mm	**3.95**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.45**	60-95	75-100	85-100	
01.18	**72.30**	30-70	55-90	75-100	
600.mic	**46.25**	15-34	35-59	60-79	
300.mic	**24.05**	5-20	8-30	12-40	
150.mic	**6.10**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Seegehalli gate, Anjanadri Nilaya, Lakshmi Narasimhiah House Road

SILICON CONSULTING ENGINEERS

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SC/QC/AMG/2022-23/P6-P/RC18 **Date: 13-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**59.75**	0 -20	30- 70
10mm	**32.90**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**78.55**	60-95	75-100	85-100	
01.18	**61.25**	30-70	55-90	75-100	
600.mic	**48.35**	15-34	35-59	60-79	
300.mic	**15.95**	5-20	8-30	12-40	
150.mic	**6.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Mahimannanapalya, Mommakkalu Gubbacchi goodu House road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC19 **Date: 14-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.10**	0 -20	30- 70
10mm	**29.45**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.45**	60-95	75-100	85-100	
01.18	**67.85**	30-70	55-90	75-100	
600.mic	**51.20**	15-34	35-59	60-79	
300.mic	**16.90**	5-20	8-30	12-40	
150.mic	**5.30**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Mahimannanapalya, Muneshwara Temple Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC20 **Date: 15-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.15**	0 -20	30- 70
10mm	**32.75**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.80**	60-95	75-100	85-100	
01.18	**62.55**	30-70	55-90	75-100	
600.mic	**41.15**	15-34	35-59	60-79	
300.mic	**15.85**	5-20	8-30	12-40	
150.mic	**6.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, Beside Smart Saloon , 7th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC21 **Date: 16-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.15**	0 -20	30- 70
10mm	**29.75**	0 -5	10- 35
4.75mm	**3.90**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.20**	60-95	75-100	85-100	
01.18	**74.90**	30-70	55-90	75-100	
600.mic	**45.65**	15-34	35-59	60-79	
300.mic	**22.35**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, 8th Cross Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC21A **Date: 16-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**61.75**	0 -20	30- 70
10mm	**28.55**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.15**	60-95	75-100	85-100	
01.18	**73.65**	30-70	55-90	75-100	
600.mic	**42.25**	15-34	35-59	60-79	
300.mic	**21.05**	5-20	8-30	12-40	
150.mic	**6.30**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, 8th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/RC22 **Date: 17-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.75**	0 -20	30- 70
10mm	**31.50**	0 -5	10- 35
4.75mm	**4.15**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.20**	60-95	75-100	85-100	
01.18	**74.85**	30-70	55-90	75-100	
600.mic	**46.55**	15-34	35-59	60-79	
300.mic	**22.15**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, 9th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SC/QC/AMG/2022-23/P6-P/RC22A **Date: 17-12-2022**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**59.45**	0 -20	30- 70
10mm	**31.85**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**79.55**	60-95	75-100	85-100	
01.18	**62.25**	30-70	55-90	75-100	
600.mic	**48.55**	15-34	35-59	60-79	
300.mic	**16.90**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, 9th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CE1 **Date: 21-10-2022**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**172 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.72 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/FA1 **Date: 21-10-2022**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.65**	60-95	75-100	85-100	
01.18	**70.85**	30-70	55-90	75-100	
600. mic	**43.15**	15.34	35-59	60-79	
300.mic	**24.50**	5-20	8-30	12-40	
150.mic	**7.35**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.65%**	-----
2	Silt Content	----	**0.58%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CA1 **Date: 21-10-2022**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**97.35**	85-100	90 - 100
10 mm	**46.90**	0 - 20	25 - 55
4.75 mm	**3.55**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**26.56 %**	Not to exceed 25 %
2.	Crushing value	**28.19 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR1 **Date: 08-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	08-12-22	07	22500	470	20.89	**21.33**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR1A **Date: 29-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	29-12-22	28	22500	710	31.56	**31.85**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR2 **Date: 08-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	08-12-22	07	22500	500	22.22	**21.93**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

AEE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR2A **Date: 29-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	29-12-22	28	22500	720	32.00	**31.93**
	002	"	"	"	"	700	31.11	
	003	"	"	"	"	735	32.67	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR3 **Date: 08-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	08-12-22	07	22500	485	21.56	**22.00**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR3A **Date: 29-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-12-22	29-12-22	28	22500	720	32.00	**31.70**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	705	31.33	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere, Government School

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR4 **Date: 09-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-12-22	09-12-22	07	22500	525	23.33	**22.81**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Raghavendra layout, Triveni Road, 2nd Cross

#S1317, 4th CROSS BEL 2nd STAGE BHARATH NAGAR ,BANGALORE – 560 091. CELL : 9448353883
E-mail siliconcivilengineers@gmail.com

SC/QC/AMG/2022-23/P6-P/CR4A **Date: 30-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-12-22	30-12-22	28	22500	730	32.44	**32.22**
	002	"	"	"	"	710	31.56	
	003	"	"	"	"	735	32.67	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Triveni Road, 2nd Cross

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR5 **Date: 10-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-12-22	10-12-22	07	22500	470	20.89	**21.41**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	480	21.33	

The result of the materials tested meets the standards and hence can be used for the work.
Kuvempu Badavane, Shanthi Nivas house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS K.R

SC/QC/AMG/2022-23/P6-P/CR5A

Date: 31-12-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-12-22	31-12-22	28	22500	720	32.00	**31.48**
	002	"	"	"	"	700	31.11	
	003	"	"	"	"	705	31.33	

The result of the materials tested meets the standards and hence can be used for the work.

Kuvempu Badavane, Shanthi Nivas house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR6 **Date: 13-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-12-22	13-12-22	07	22500	465	20.67	**21.04**
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	480	21.33	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Jagadish House Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR6A **Date: 03-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-12-22	03-01-23	28	22500	705	31.33	**31.70**
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Jagadish House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR7 **Date: 14-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-12-22	14-12-22	07	22500	495	22.00	**22.37**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Ana Kru Road, 4th Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS K.R

SC/QC/AMG/2022-23/P6-P/CR7A **Date: 04-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-12-22	04-01-23	28	22500	700	31.11	**30.81**
	002	"	"	"	"	685	30.44	
	003	"	"	"	"	695	30.89	

The result of the materials tested meets the standards and hence can be used for the work.
Raghavendra layout, Ana Kru Road, 4th Main Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR8 **Date: 15-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-12-22	15-12-22	07	22500	485	21.56	**21.93**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 1st Cross

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR8A **Date: 05-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-12-22	05-01-23	28	22500	685	30.44	**30.96**
	002	"	"	"	"	705	31.33	
	003	"	"	"	"	700	31.11	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 1st Cross

AE

SILICON CONSULTING ENGINEERS

SC/QC/AMG-PYNK/2022-23/P6/K-CR9 **Date: 16-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kittanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants"}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K Venkata Raju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-12-22	16-12-22	07	22500	480	21.33	**22.00**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.

Ravuthanahalli, Narasimhaiah house road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG-PYNK/2022-23/P6/K-CR9A **Date: 06-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kittanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants"}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K Venkata Raju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-12-22	06-01-23	28	22500	720	32.00	**32.00**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.

Ravuthanahalli, Narasimhaiah house road

AE

Asst. E... ...gineer
Proje... Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR10 **Date: 19-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-12-22	19-12-22	07	22500	475	21.11	**21.63**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 3rd Cross

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS K.R

SC/QC/AMG/2022-23/P6-P/CR10A **Date: 09-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-12-22	09-01-23	28	22500	705	31.33	**31.26**
	002	"	"	"	"	685	30.44	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 3rd Cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR11 **Date: 19-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-12-22	19-12-22	07	22500	495	22.00	**21.78**
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 3rd Cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR11A **Date: 09-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-12-22	09-01-23	28	22500	705	31.33	**30.59**
	002	"	"	"	"	690	30.67	
	003	"	"	"	"	670	29.78	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 3rd Cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR12 **Date: 20-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-22	20-12-22	07	22500	510	22.67	**22.30**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

SILICON CONSULTING ENGINEERS K.r

SC/QC/AMG/2022-23/P6-P/CR12A **Date: 10-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-22	10-01-23	28	22500	685	30.44	**30.74**
	002	"	"	"	"	690	30.67	
	003	"	"	"	"	700	31.11	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR13 **Date: 20-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-22	20-12-22	07	22500	510	22.67	**22.30**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

AE

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR13A **Date: 10-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-22	10-01-23	28	22500	730	32.44	**32.07**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, Basaweshwara House Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR14 **Date: 22-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-12-22	22-12-22	07	22500	510	22.67	**22.00**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.

Spoorthi layout, 2nd cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR14A **Date: 12-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-12-22	12-01-23	28	22500	725	32.22	**31.93**
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	710	31.56	

The result of the materials tested meets the standards and hence can be used for the work.
Spoorthi layout, 2nd cross

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR15 **Date: 24-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-12-22	24-12-22	07	22500	485	21.56	**22.22**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Sriranga Muneshwara Temple Surrounding

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR15A **Date: 14-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-12-22	14-01-23	28	22500	730	32.44	**32.37**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Sriranga Muneshwara Temple Surrounding

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR16 **Date: 26-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-12-22	26-12-22	07	22500	505	22.44	**22.37**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.

Seegehalli gate, Anjanadri House Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR16A **Date: 16-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-12-22	16-01-23	28	22500	730	32.44	**32.59**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	745	33.11	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Anjanadri House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR17 **Date: 27-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-12-22	27-12-22	07	22500	500	22.22	**22.52**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Guddadha Ranganatha Swamy Nilaya Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR17A **Date: 17-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-12-22	17-01-23	28	22500	725	32.22	**31.85**
	002	"	"	"	"	710	31.56	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Guddadha Ranganatha Swamy Nilaya Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 32

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR18 **Date: 28-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-12-22	28-12-22	07	22500	495	22.00	**22.37**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Anjanadri Nilaya, Lakshmi Narasimhiah House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR18A **Date: 18-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-12-22	18-01-23	28	22500	720	32.00	**31.63**
	002	"	"	"	"	705	31.33	
	003	"	"	"	"	710	31.56	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Anjanadri Nilaya, Lakshmi Narasimhiah House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR19 **Date: 29-12-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-12-22	29-12-22	07	22500	490	21.78	**21.56**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	485	21.56	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Lakshmi Narasimha Swamy House Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR19A **Date: 19-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-12-22	19-01-23	28	22500	700	31.11	**31.41**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	705	31.33	

The result of the materials tested meets the standards and hence can be used for the work.
Seegehalli gate, Lakshmi Narasimha Swamy House Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR20 **Date: 02-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	02-01-23	07	22500	485	21.56	**22.22**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Mahimannanapalya, Muneshwara Temple Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR20A **Date: 23-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	23-01-23	28	22500	705	31.33	**31.33**
	002	"	"	"	"	710	31.56	
	003	"	"	"	"	700	31.11	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Muneshwara Temple Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR21 **Date: 02-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	02-01-23	07	22500	505	22.44	**22.37**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Mommakkalu Gubbacchi goodu House road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR21A **Date: 23-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	23-01-23	28	22500	720	32.00	**31.70**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	705	31.33	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Mommakkalu Gubbacchi goodu House road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR22 **Date: 02-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	02-01-23	07	22500	465	20.67	**20.96**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	470	20.89	

The result of the materials tested meets the standards and hence can be used for the work.

Mahimannanapalya, Mommakkalu Gubbacchi goodu House road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR22A **Date: 23-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-22	23-01-23	28	22500	705	31.33	**31.63**
	002	"	"	"	"	700	31.11	
	003	"	"	"	"	730	32.44	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Mommakkalu Gubbacchi goodu House road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SC/QC/AMG/2022-23/P6-P/CR23 **Date: 03-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-12-22	03-01-23	07	22500	480	21.33	**21.26**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	465	20.67	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Renuka nilaya house Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR23A **Date: 24-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-12-22	24-01-23	28	22500	730	32.44	**32.22**
	002	"	"	"	"	710	31.56	
	003	"	"	"	"	735	32.67	

The result of the materials tested meets the standards and hence can be used for the work.
Mahimannanapalya, Renuka nilaya house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR24 **Date: 04-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-22	04-01-23	07	22500	490	21.78	**21.56**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	485	21.56	

The result of the materials tested meets the standards and hence can be used for the work.
Lakshmi Layout, Beside Smart Saloon , 7th Cross Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR24A **Date: 25-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-22	25-01-23	28	22500	700	31.11	**31.19**
	002	"	"	"	"	695	30.89	
	003	"	"	"	"	710	31.56	

The result of the materials tested meets the standards and hence can be used for the work.
Lakshmi Layout, Beside Smart Saloon , 7th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

SC/QC/AMG/2022-23/P6-P/CR25 **Date: 04-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-22	04-01-23	07	22500	500	22.22	**21.63**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
Lakshmi Layout, 8th Cross Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR25A **Date: 25-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-22	25-01-23	28	22500	715	31.78	**31.04**
	002	"	"	"	"	685	30.44	
	003	"	"	"	"	695	30.89	

The result of the materials tested meets the standards and hence can be used for the work.
Lakshmi Layout, 8th Cross Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR26 **Date: 05-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-12-22	05-01-23	07	22500	490	21.78	**22.07**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

Lakshmi Layout, 9th Cross Road

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR26A **Date: 26-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-12-22	26-01-23	28	22500	740	32.89	**32.52**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	730	32.44	

The result of the materials tested meets the standards and hence can be used for the work.
Lakshmi Layout, 9th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 9?

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR27 **Date: 06-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-12-22	06-01-23	07	22500	505	22.44	**21.93**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere village, Rajesh house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR27A **Date: 27-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-12-22	27-01-23	28	22500	705	31.33	**31.63**
	002	"	"	"	"	710	31.56	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere village, Rajesh house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR28 **Date: 07-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-12-22	07-01-23	07	22500	495	22.00	**21.33**
	002	"	"	"	"	470	20.89	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
Kadabagere village, Rajesh house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P/CR28A **Date: 28-01-2023**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri . K. Venkataraju.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-12-22	28-01-23	28	22500	740	32.89	**32.30**
	002	"	"	"	"	715	31.78	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.

Kadabagere village, Rajesh house Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS